₹ IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re Application of

Rahul SURANA et al.

Serial No. 10/809,906

Group Art Unit:

Filed: March 26, 2004

Examiner:

For: A TECHNIQUE FOR PROCESS-QUALIFYING A SEMICONDUCTOR

MANUFACTURING TOOL USING METROLOGY DATA

INFORMATION DISCLOSURE STATEMENT

Honorable Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached form PTO-1449. It is respectfully requested that the documents be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom. Copies of any cited U.S. Patents and U.S. Patent Publications are not being submitted in accordance with 37 CFR 1.98(a)(2)(i).

This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No certification or fee is required.

In accordance with 37 C.F.R. § 1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search had been made or that information cited is, or is considered to be, material to patentability as defined in 37 C.F.R.§ 1.56 (b), or that any cited document listed or attached is (or constitutes) prior art. Unless otherwise indicated, the date of Serial No. 10/809,906

publication indicated for an item is taken from the face of the item, and Applicant reserves the

right to prove that the date of publication is in fact different.

The references listed on Sheet 1 of the attached PTO-1449 Forms were cited in a

patentability investigation and/or a corresponding foreign or PCT application relating to the

above-referenced application. The remaining references are from potentially related patent

applications, and possibly other sources.

No fee is believed to be required; however, the Commissioner is authorized to charge any

deficiency in any fees pursuant to 37 CFR § 1.17 associated with this communication and to

credit any excess payment to Deposit Account No. 08-0219.

Respectfully submitted,

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INFORMATION DISCLOSURE CITATION IN AN APPLICATION (PTO-1449)

ATTY. DOCKET NO.
008089 USA/MTCG/PCTRL

SERIAL NO.
10/809,906

APPLICANT
Rahul SURANA et al.

FILING DATE

GROUP

U.S. PATENT DOCUMENTS

March 26, 2004

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INFORMATION DISCLOSURE CITATION IN AN APPLICATION (PTO-1449)		ATTY. DOCKET N 008089 USA/MT0		SERIAL NO 10/809,90			
	(110	1440)		APPLICANT Rahul SURAN	A et al.		
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ATTY. DOCKET NO. SERIAL NO. INFORMATION DISCLOSURE 008089 USA/MTCG/PCTRL 10/809,906 CITATION IN AN APPLICATION (PTO-1449) APPLICANT Rahul SURANA et al. FILING DATE GROUP March 26, 2004 U.S. PATENT DOCUMENTS EXAMINER'S FILING **INITIALS** PATENT NO. DATE NAME **CLASS SUBCLASS** DATE 5,270,222 12/14/93 Moslehi 12/31/90 5,283,141 02/01/94 Yoon et al. 03/05/92 5,295,242 03/15/94 Mashruwala et al. 11/02/90 5,309,221 05/03/94 Fischer et al. 12/31/91 5,329,463 07/12/94 Sierk et al. 01/13/93 5,338,630 08/16/94 Yoon et al. 11/18/93 5,347,446 09/13/94 Iino et al. 02/10/92 5,367,624 11/22/94 Cooper 06/11/93 5,375,064 12/20/94 Bollinger 12/02/93 5,398,336 03/14/95 Tantry et al. 06/16/93 5,402,367 03/28/95 Sullivan et al. 07/19/93 5,408,405 04/18/95 Mozumder et al. 09/20/93 5,410,473 04/25/95 Kaneko et al. 12/16/92 5,420,796 05/30/95 Weling et al. 12/23/93 5,427,878 06/27/95 Corliss 05/16/94 5,469,361 11/21/95 Moyne 06/06/94 5,485,082 01/16/96 Wisspeintner et al. 04/05/90 5,490,097 02/06/96 Swenson et al. 08/06/93 5,495,417 02/27/96 Fuduka et al. 03/16/93 5,497,316 03/05/96 Sierk et al. 04/04/95 5,497,381 03/05/96 O'Donoghue et al. 06/01/95 5,503,707 04/02/96 Maung et al. 09/22/93 5,508,947 04/16/96 Sierk et al. 05/13/94 5.511.005 04/23/96 Abbe et al. 02/16/94 5,519,605 05/21/96 Cawlfield 10/24/94 5,525,808 06/11/96 Irie et al. 12/20/94 5,526,293 06/11/96 Mozumder et al. 12/17/93 5,534,289 07/09/96 Bilder et al. 01/03/95 5,541,510 07/30/96 Danielson 04/06/95 **EXAMINER DATE CONSIDERED**

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INFORMATION DISCLOSURE CITATION IN AN APPLICATION (PTO-1449)		ATTY. DOCKET 008089 USA/MT	NO.	SERIAL NO 10/809,90).		
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	5,665,199	09/09/97	Sahota et al.				09/04/96
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ATTY. DOCKET NO. INFORMATION DISCLOSURE SERIAL NO. 008089 USA/MTCG/PCTRL 10/809,906 CITATION IN AN **APPLICATION** (PTO-1449) APPLICANT Rahul SURANA et al. FILING DATE **GROUP** March 26, 2004 **U.S. PATENT DOCUMENTS EXAMINER'S FILING** PATENT NO. INITIALS DATE NAME **CLASS SUBCLASS** DATE 5,751,582 05/12/98 09/24/96 Saxena et al. 5,754,297 05/19/98 Nulman 04/14/97 5,761,064 06/02/98 La et al. 10/06/95 5,761,065 06/02/98 Kittler et al. 03/30/95 5,764,543 06/09/98 Kennedy 06/16/95 5,777,901 07/07/98 Berezin et al. 09/29/95 5,787,021 07/28/98 Samaha 12/18/95 5,787,269 07/28/98 Hyodo 09/19/95 5,808,303 09/15/98 Schlagheck et al. 01/29/97 5,812,407 09/22/98 Sato et al. 08/12/97 5,823,854 10/20/98 Chen 05/28/96 5,825,913 10/20/98 Rostami et al. 07/18/95 5,828,778 10/27/98 Hagi et al. 07/12/96 11/03/98 5,832,224 Fehskens et al. 06/14/96 5,838,595 11/17/98 Sullivan et al. 11/25/96 5,844,554 12/01/98 Geller et al. 09/17/96 5,857,258 01/12/99 Penzes et al. 05/12/94 5,859,964 01/12/99 Wang et al. 10/25/96 5,859,975 01/12/99 Brewer et al. 08/09/96 5,862,054 01/19/99 Li 02/20/97 5,863,807 01/26/99 Jang et al. 03/15/96 5,867,389 02/02/99 Hamada et al. 11/26/96 5,870,306 02/09/99 Harada 06/13/97 5,883,437 03/16/99 Maruyama et al. 12/28/95 5,889,991 03/30/99 Consolatti et al. 12/06/96 5,901,313 Wolfe et al. 05/04/99 09/02/97 5,903,455 05/11/99 Sharpe, Jr. et al. 12/12/96 5,910,011 05/12/97 06/08/99 Cruse 5,910,846 06/08/99 Sandhu 08/19/97 **EXAMINER** DATE CONSIDERED

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ATTY, DOCKET NO. SERIAL NO. INFORMATION DISCLOSURE 008089 USA/MTCG/PCTRL 10/809,906 CITATION IN AN **APPLICATION** (PTO-1449) APPLICANT Rahul SURANA et al. FILING DATE GROUP March 26, 2004 **U.S. PATENT DOCUMENTS EXAMINER'S** FILING **INITIALS** PATENT NO. DATE NAME **CLASS SUBCLASS** DATE 5,912,678 06/15/99 Saxena et al. 04/14/97 5,916,016 06/29/99 Bothra 10/23/97 5,923,553 07/13/99 Yi 10/05/96 5,926,690 07/20/99 Toprac et al. 05/28/97 5,930,138 07/27/99 Lin et al. 09/10/97 5,940,300 08/17/99 Ozaki 05/08/97 5,943,237 08/24/99 Van Boxem 10/17/97 5,960,185 09/28/99 Nguyen 06/24/96 5,960,214 09/28/99 Sharpe, Jr. et al. 12/04/96 5,961,369 10/05/99 Bartels et al. 06/04/98 5,963,881 10/05/99 Kahn et al. 10/20/97 5,978,751 11/02/99 Pence et al. 02/25/97 5,982,920 11/09/99 Tobin, Jr. et al. 01/08/97 6,002,989 Shiba et al. 12/14/99 04/01/97 6,017,771 01/25/00 Yang et al. 04/27/98 6,036,349 03/14/00 Gombar 07/26/96 6,041,263 03/21/00 Boston et al. 10/01/97 6,041,270 03/21/00 Steffan et al. 12/05/97 6,054,379 04/25/00 Yau et al. 02/11/98 6,064,759 05/16/00 Buckley et al. 11/06/97 6,072,313 06/06/00 Li et al. 06/17/97 Venkatesh et al. 6,074,443 06/13/00 01/29/98 6,077,412 06/20/00 Ting et al. 10/30/98 6,078,845 06/20/00 Friedman 11/25/96 6,094,688 07/25/00 Mellen-Garnett et al. 03/12/98 6,097,887 08/01/00 Hardikar et al. 10/27/97 6,108,092 08/22/00 Sandhu 06/08/99 6,111,634 08/29/00 Pecen et al. 05/28/97 6,112,130 08/29/00 Fukuda et al. 10/01/97 **EXAMINER** DATE CONSIDERED

ATTY. DOCKET NO. SERIAL NO. INFORMATION DISCLOSURE 008089 USA/MTCG/PCTRL 10/809,906 CITATION IN AN **APPLICATION** (PTO-1449) APPLICANT Rahul SURANA et al. FILING DATE **GROUP** March 26, 2004 U.S. PATENT DOCUMENTS **EXAMINER'S** FILING INITIALS PATENT NO. DATE NAME **CLASS SUBCLASS** DATE 6,127,263 10/03/00 Parikh 07/10/98 6,128,016 10/03/00 Coelho et al. 12/20/96 6,136,163 10/24/00 Cheung et al. 03/05/99 6,141,660 10/31/00 Bach et al. 07/16/98 6,143,646 11/07/00 Wetzel 06/03/97 6,148,099 11/14/00 Lee et al. 07/03/97 6,148,239 11/14/00 Funk et al. 12/12/97 6,148,246 11/14/00 Kawazome 06/10/98 6,150,664 11/21/00 Su 06/29/99 6.159.644 12/12/00 Satoh et al. 03/06/96 6,161,054 B1 12/12/00 Rosenthal et al. 09/17/98 6,169,931 B1 01/02/01 Runnels 07/29/98 6,172,756 B1 01/09/01 Chalmers et al. 12/11/98 6,173,240 B1 01/09/01 11/02/98 Sepulveda et al. 01/16/01 6,175,777 B1 Kim 01/16/98 6,178,390 B1 01/23/01 Jun 09/08/98 6,183,345 B1 02/06/01 Kamono et al. 03/20/98 6,185,324 B1 02/06/01 Ishihara et al. 01/31/95 6,191,864 B1 02/20/01 Sandhu 02/29/00 6,192,291 B1 02/20/01 Kwon 10/08/98 6,197,604 B1 03/06/01 Miller et al. 10/01/98 6,204,165 B1 03/20/01 Ghoshal 06/24/99 6,210,983 B1 04/03/01 Atchison et al. 06/15/99 6,211,094 B1 04/03/01 Jun et al. 08/23/99 6,214,734 B1 04/10/01 Bothra et al. 11/20/98 6,219,711 B1 04/17/01 Chari 10/01/97 **EXAMINER** DATE CONSIDERED

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ATTY, DOCKET NO. SERIAL NO. INFORMATION DISCLOSURE 008089 USA/MTCG/PCTRL 10/809,906 CITATION IN AN **APPLICATION** (PTO-1449) APPLICANT Rahul SURANA et al. FILING DATE **GROUP** March 26, 2004 U.S. PATENT DOCUMENTS **EXAMINER'S** FILING PATENT NO. INITIALS DATE NAME **CLASS SUBCLASS** DATE 05/01/01 6,226,792 B1 Goiffon et al. 10/14/98 05/08/01 6,230,069 B1 Campbell et al. 06/26/98 6,236,903 B1 05/22/01 Kim et al. 09/25/98 2001/0001755 A1 05/24/01 Sandhu et al. 12/29/00 6,240,330 B1 05/29/01 Kurtzberg et al. 05/28/97 6,240,331 B1 05/29/01 Yun 08/18/98 6,245,581 B1 06/12/01 Bonser et al. 04/19/00 6,246,972 B1 06/12/01 Klimasauskas 05/27/99 6,248,602 B1 06/19/01 Bode et al. 11/01/99 6,249,712 B1 06/19/01 Boiquaye 09/25/96 6,252,412 B1 06/26/01 Talbot et al. 01/08/99 6,253,366 B1 06/26/01 Mutschler, III 03/31/99 6,263,255 B1 07/17/01 Tan et al. 05/18/98 6,271,670 B1 08/07/01 Caffey 02/08/99 6,276,989 B1 08/21/01 Campbell et al. 08/11/99 6,278,899 B1 08/21/01 Piche et al. 10/06/98 6,284,622 B1 09/04/01 Campbell et al. 10/25/99 6,287,879 B1 09/11/01 Gonzales et al. 08/11/99 6,290,572 B1 09/18/01 Hofmann 03/23/00 6,292,708 B1 09/18/01 Allen et al. 06/11/98 6,298,274 B1 10/02/01 Inoue 09/01/99 6,298,470 B1 10/02/01 Breiner et al. 04/15/99 6,303,395 B1 10/16/01 Nulman 06/01/99 6,304,999 B1 10/16/01 Toprac et al. 10/23/00 2001/0030366 A1 10/18/01 Nakano et al. 03/07/01 6,307,628 B1 10/23/01 Lu et al. 08/18/00 6,314,379 B1 11/06/01 Hu et al. 12/04/97 **EXAMINER** DATE CONSIDERED

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